

WEST

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Apr 4, 2000

DERWENT-ACC-NO: 1990-274893

DERWENT-WEEK: 200035

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TITLE: Preserving prod. by preventing oxidn., quenching singlet oxygen growth - by adding safe and effective amt. of active form of conjugated linoleic acids

INVENTOR: HA, Y L; PARIZA, M W

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
WISCONSIN ALUMNI RES FOUND	WISC

PRIORITY-DATA: 1989US-0313120 (February 17, 1989)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 1340945 C	April 4, 2000	E	000	C07C057/12
WO 9009110 A	August 23, 1990	N/A	029	N/A
AU 9051504 A	September 5, 1990	N/A	000	N/A
EP 411101 A	February 6, 1991	N/A	000	N/A
US 5017614 A	May 21, 1991	N/A	000	N/A
JP 03504804 W	October 24, 1991	N/A	000	N/A
IL 93351 A	July 8, 1993	N/A	000	C09K015/06
JP 94061246 B2	August 17, 1994	N/A	011	A23L003/3508
EP 411101 A4	August 14, 1991	N/A	000	N/A
EP 411101 B1	May 3, 1995	E	012	A23L003/3508
DE 69019084 E	June 8, 1995	N/A	000	A23L003/3508

DESIGNATED-STATES: AU BG FI HU JP NO RO SE SU AT BE CH DE DK ES FR GB IT LU NL SE  
AT BE CH DE ES FR GB IT LI LU NL SE AT BE CH DE DK ES FR GB IT LI LU NL SE

CITED-DOCUMENTS: 5.Jnl.Ref; 1.Jnl.Ref ; FR 2020643 ; 01Jnl.Ref

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CA 1340945C	June 19, 1989	1989CA-0603181	N/A
EP 411101A	February 2, 1990	1990EP-0903647	N/A
US 5017614A	February 17, 1989	1989US-0313120	N/A
JP 03504804W	February 2, 1990	1990JP-0503729	N/A
IL 93351A	February 12, 1990	1990IL-0093351	N/A
JP 94061246B2	February 2, 1990	1990JP-0503729	N/A
JP 94061246B2	February 2, 1990	1990WO-US00630	N/A
JP 94061246B2		JP 3504804	Based on
JP 94061246B2		WO 9009110	Based on
EP 411101A4		1990EP-0903647	N/A
EP 411101B1	February 2, 1990	1990EP-0903647	N/A
EP 411101B1	February 2, 1990	1990WO-US00630	N/A
EP 411101B1		WO 9009110	Based on
DE 69019084E	February 2, 1990	1990DE-0619084	N/A
DE 69019084E	February 2, 1990	1990EP-0903647	N/A
DE 69019084E	February 2, 1990	1990WO-US00630	N/A
DE 69019084E		EP 411101	Based on
DE 69019084E		WO 9009110	Based on

INT-CL (IPC): A23B 4/12; A23B 5/14; A23C 3/08; A23C 19/10; A23L 1/314; A23L 3/35; A23L 3/3508; A23L 3/3517; A61K 31/20; C07C 57/12; C09K 15/06; C11C 3/00

RELATED-ACC-NO: 1991-232034; 1993-159240

ABSTRACTED-PUB-NO: EP 411101B

BASIC-ABSTRACT:

A method of preserving a prod. by preventing oxidation, quenching singlet oxygen or inhibiting mould growth in the prod. comprises adding to the prod. a safe and effective amt. of an active form of conjugated linoleic acids (CLA). Also claimed is a method of preserving a prod. by adding linoleic acid and a protein capable of in situ converting the linoleic acid to CLA, a safe and effective preservative comprising CLA and a non-toxic salt of 9,11-octadecadienoic acid, 10,12-octadecadienoic acid or their active isomers.

USE/ADVANTAGE - The method of preserving the food is safe, natural and effective. The novel compsns. can be prep'd. by a simple, inexpensive method. The amt. employed of CLA and its non-toxic salts is 1-1,000 ppm of prod.. The compsn. can be used in natural foods. @ (29pp DWg. No. 0/4)

ABSTRACTED-PUB-NO:

US 5017614A

EQUIVALENT-ABSTRACTS:

A method of inhibiting mould growth in a product which comprises adding to said product 9,11-octadecadienoic acid, 10,12-octadecadienoic acid or a non-toxic salt thereof.

Oxidn. is prevented, singlet oxygen quenched, and mould growth is a fatty acid-contg. prod. is inhibited by adding the free conjugated linoleic acids (CLA) 9,11-octadecadienoic acid and 10,12-octadecadienoic acid. CLA is pref. added by forming it in situ by adding linoleic acid and protein contg. SH-gps. to the prod. Pref. protein is whey protein. ADVANTAGE - Can be used on true natural foods, is safe and inexpensive.

(11pp)

WO 9009110A

CHOSEN-DRAWING: Dwg. 0/2

TITLE-TERMS: PRESERVE PRODUCT PREVENT OXIDATION QUENCH SINGLET OXYGEN GROWTH ADD  
SAFE EFFECT AMOUNT ACTIVE FORM CONJUGATE LINOLEIC ACID

DERWENT-CLASS: D13 E17

CPI-CODES: D03-H02E; E05-A; E10-C04H; E10-G02D;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

H7 H724 J0 J011 J171 J271 M210 M211 M212 M213  
M214 M215 M216 M220 M221 M222 M223 M224 M225 M226  
M231 M232 M233 M262 M272 M281 M320 M416 M630 M781  
M782 M903 M904 P241 P243 Q225 Q624 R032

Markush Compounds

199036-E3301-M 199036-E3301-U

Registry Numbers

1327U 0502U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-118790